DIY MORE AT2-PCB Universal Timer Trigger Cycle Timer Delay Switch Circuit Board Instructions
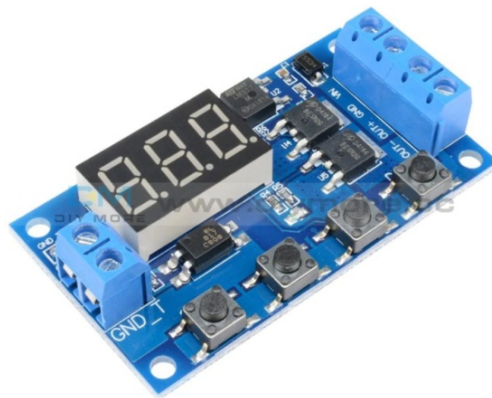
DIY MORE AT2-PCB Universal Timer Trigger Cycle Timer Delay Switch Circuit Board Instructions
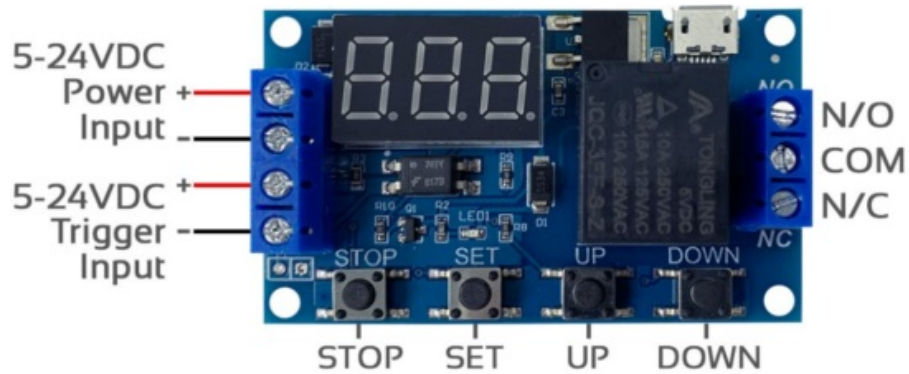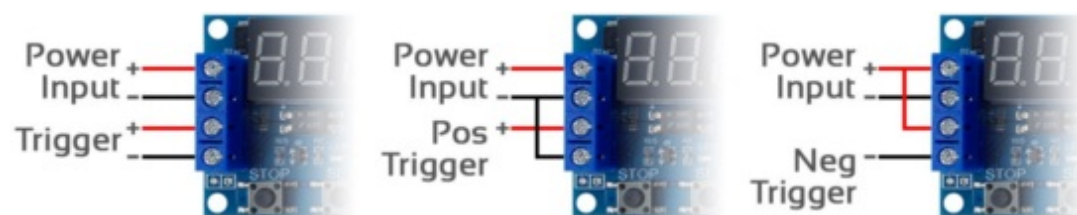
Contents

Specifications

Input Voltage 5 – 24VDC
Trigger Voltage 5 – 24VDC
Relay Contacts 5 – 30VDC @ 5A
Standby Current 20mA

Operating Current 50mA
Time Increments 0.1 sec to 16.5 hours
Dimensions 63 x 37 x 20mm
Operating Temp -20 to 60 Degrees
Time Functions 9 Selectable Modes
Mounting Holes 3mm

Overview

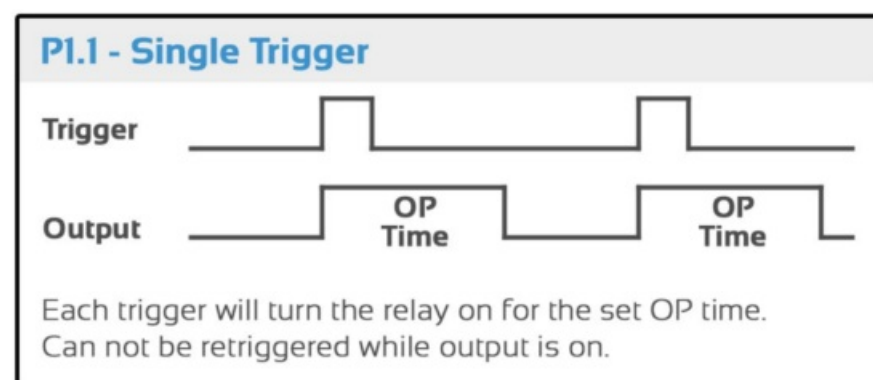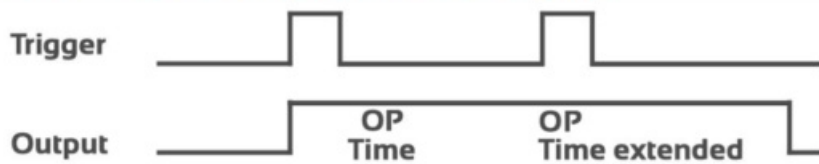## Wiring options

Select A Time Function –

Example PL1, P1.2 etc

P1.1 - Single Trigger

| Trigger | | |
| Output | OP Time | OP Time |

Each trigger will turn the relay on for the set OP time.
Can not be retriggered while output is on.

P1.2 - Single Trigger plus Re-Trigger

Trigger

Output

OP Time

OP Time extended

Each trigger will turn the relay on for the set OP time. Can be re-triggered during OP Time.

P1.3 - Single Trigger plus Trigger Cut-Off

Trigger

Output
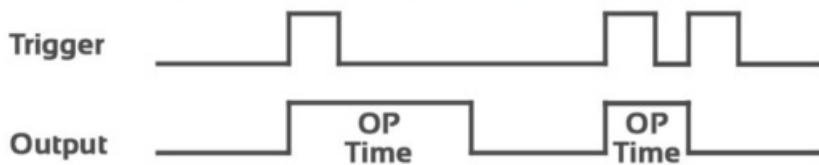
OP Time

OP Time

Each trigger will turn the relay on for the set OP time. Output can be stopped during OP Time with another trigger.

P - 2 - Single Trigger with Output ON Delay

Trigger

Output

CL Time | OP Time

CL Time | OP Time

Each trigger will turn the relay on for the set OP time after the CL time has expired. **Can not be retriggered.**

P3.1 - Single Trigger Cycle Mode

Trigger

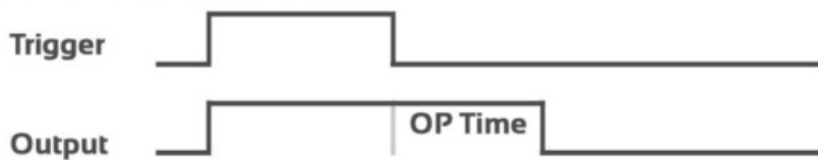Output

OP Time | CL Time | OP Time | CL Time | OP Time | C

A trigger will turn the relay on for the set OP time, then off for the set CL time for a set amount of cycles, or a continuos cycle (LOP). A second trigger during operation will stop the cycle.

P3.2 - Cycle Mode Initiated by Power Up

Power Up

Output

CL Time | OP Time | CL Time | OP Time | CL Time | C

Power up will turn the relay on for the set OP time, then off for the set CL time for a set amount of cycles, or a continuos cycle (LOP). Trigger input is ignored in this mode.

P - 4 - Extender Timer

Trigger

Output — OP Time

A trigger will turn the relay on. When the trigger is released the output will continue to stay on for the set OP time.

Warning

<15VDC – The relay on this product is rated for continuous use with a power input up to 15VDC.

>24VDC – The relay on this product is rated for up to 5 minutes of continuous use with a 10% duty cycle with a power input up to 24VDC.

Terminology

Enter Program Mode: Press Et hold the SET button for 2 seconds, then release.
EXIT Program Mode: Press 8 hold the SET button for 2 seconds, then release.
OP = Relay ON Time.
CL = Relay OFF Time.
LOP = Loop (number of operation cycles per trigger).

Programming

- First choose the time mode you wish to use from the tables on the previous page. I.e. P – 2, P3.2 etc.
- Now enter program mode by pressing and holding the **SET** button for 2 seconds, then releasing. The current time mode will display (i.e. P1.1) to indicate that you are in program mode.
- Next use the **UP** & **DOWN** buttons to scroll to the time mode you wish to use, then press **SET** to confirm.
- Now set the values for **OP, CL** or **LOP** by using the **UP** & **DOWN** buttons, followed by **SET** to save.

Note: Certain time modes will only include OP and some can include OP, CL & LOP as shown in the tables on the previos page.
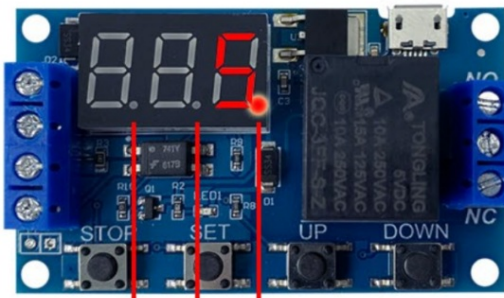
Time Intervals

- When setting the OP S/or CL value you can choose the period to be either milliseconds, seconds or minutes. You can change between these time periods with each press of the STOP button followed by the SET button to save.
  See examples below:
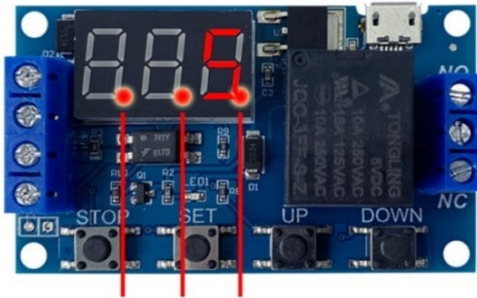
Example = 5 Milliseconds   Example = 5 Seconds
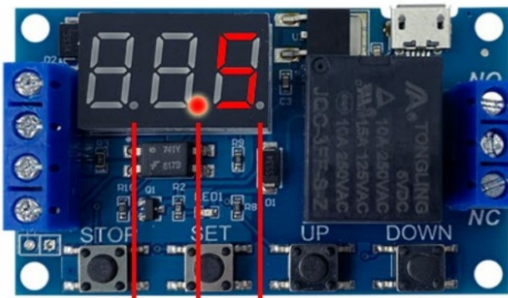
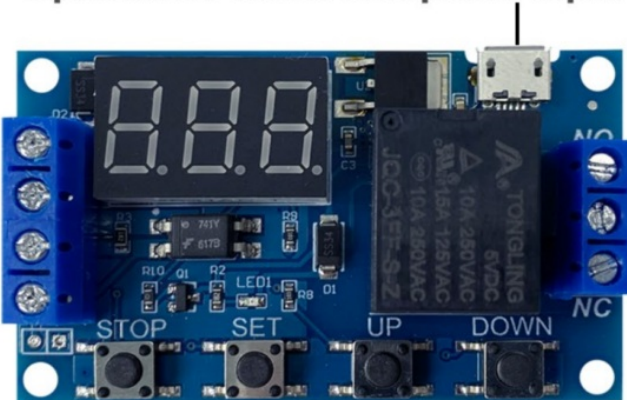**Milliseconds**   **Seconds**

Example = 5 Minutes

Minutes

- LOP (cycles) is used for time modes P3.1 & P3.2 and can be set to a number of cycles or — — — for infinite cycles.
- Once the required **OP, CL, LOP** & time value are set, return the module to operating mode by pressing & holding the SET button for 2 seconds then releasing. The module will flash the current time mode before returning to operating mode.
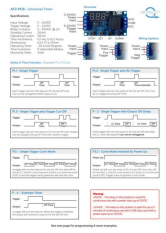
Operation from Power Up

- After every power up the timer will return to the last programmed time mode. The timer will then wait for a trigger to begin operation. Alternatively time mode P3.2 will start operation automatically on power up. (see previous page for the complete table of time modes).

Optional 5V micro USB power input

Documents / Resources

[DIY MORE AT2-PCB Universal Timer Trigger Cycle Timer Delay Switch Circuit Board](#) [pdf]
Instructions
AT2-PCB, Universal Timer Trigger Cycle Timer Delay Switch Circuit Board, AT2-PCB Universal
Timer Trigger Cycle Timer Delay Switch Circuit Board